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sending to the sender from the server through the internet a copy of the message and the information received by the server from the agent.

85. A method as set forth in claim 84 wherein

the indication received by the server through the internet from the agent includes an identification of the agent and any transfer agent through whom the message has passed between the server and the agent.

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86. A method as set forth in claim 84 wherein

the server identifies any attachment to the message and wherein

the identity of the attachment received by the server through the internet from the agent and

wherein

the server sends to the sender through the internet a copy of the attachment received from the agent.

87. A method as set forth in claim 84 wherein

a digital fingerprint of the message is provided at the server by a plurality of digits in a unique sequence and is sent by the server to the sender.

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88. A method as set forth in claim 84 wherein

the server creates a message digest of the message and encrypts the message digest and sends the encrypted message digest to the sender through the internet with the message, the identification and e-mail address of the server and the identity of the sender.

89. A method as set forth in claim 84 wherein

the message passes from the server to the agent through at least one mail transfer agent and wherein

the agent includes, in the information transmitted to the server, the identity and address of the at least one mail transfer agent and wherein

the server includes in the information transmitted to the sender the identity of the at least one mail transfer agent received by the server from the agent.

90. A method of transmitting a message through the internet from a sender to a recipient through a server displaced from the recipient, including the steps at the server of:

receiving the message at the server from the sender,

transmitting from the server through the internet to an agent the message and the identity and internet address of the server and an indication representing the identity of the sender,

receiving at the server from the agent a handshaking and delivery history of the message from the server to the agent, and

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transmitting from the server to the sender through the internet the message, a digital signature, including a digital fingerprint, of the message and the handshaking and delivery history of the message received from the agent.

## 91. A method as set forth in claim 90 wherein

the server retains a copy of the digital signature of the message and the handshaking and delivery history of the message, but not a copy of the message unless requested to do so by the sender, after the server transmits to the sender through the internet the message, the digital signature of the message and the handshaking and delivery history of the message.

## 92. A method as set forth in claim 90 wherein

the server retains a copy, except for the message, of the information received by the server from the agent and sent to the sender and wherein

when the sender wishes to authenticate that the message was sent by the server to the agent, the server matches the information, except for the message, sent by the server to the sender relating to the message with the information retained by the server relating to the message.

93. A method as set forth in claim 90 wherein

the message includes an attachment and wherein

the server receives the attachment from the sender and wherein

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the server transmits the attachment to the agent at the same time that the sender transmits the message to the agent and wherein

the server receives from the agent the attachment at the same time that it receives the message and the handshaking and delivery history of the message from the agent and wherein

the server transmits the attachment and a digital signature, including a digital fingerprint, of the attachment to the sender at the same time that it transmits the digital signature of the message to the sender.

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## 94. A method as set forth in claim 90 wherein

the message is ransmitted from the sender to the agent in an individual one of a variety of recognized header formats and wherein

the server receives from the agent the digital signature of the message and the handshaking and delivery history of the message with the header formed in the individual one of the variety of recognized header formats.

# 95. A method as set forth in claim 90 wherein

the server requests a delivery status notification from the agent relating to the message when it transmits the message to the agent and wherein

the server receives the delivery status notification from the agent when it receives the digital signature of the message from the agent.

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96. A method as set forth in claim 90, including the step at the agent of:

indicating the delivery status of the message from the server in the transmittal from the agent to the server through the internet.

97. A method as set forth in claim 93, including the steps at the sender of:

receiving from the server through the internet, at the same time as the receipt of a copy of the message to the agent from the server, a copy of any attachment to the message and a digital signature, including a digital fingerprint, of the attachment, and

providing for a transmittal from the agent to the server through the internet of the digital signature, including the digital fingerprint, of the attachment at the same time as the transmittal of the message from the agent to the server.

98. In a method of transmitting a message through the internet from a sender to a recipient through a server displaced from the recipient, the steps at the server of:

receiving the message at the server from the sender,

generating a hash constituting a synopsis of the message in coded form,

encrypting the hash with a particular encryption code to generate a digital fingerprint of the message, and

transmitting the message and the digital fingerprint of the message through the internet to the sender.

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99. In a method as set forth in claim 98, the steps at the server of:

generating, for any attachment to the message, a hash constituting a synopsis of the attachment in coded form,

encrypting the hash with a particular encryption code to generate a digital fingerprint of the attachment, and

transmitting the attachment and the digital fingerprint of the attachment to the sender through the internet at the same time that the message and the digital fingerprint of the message are transmitted from the server to the sender through the internet.

100. In a method as set forth in claim 98, the steps at the server of:

transmitting to an agent for the recipient through the internet the identity of the sender and the identity and internet address of the server at the same time that the server transports to the agent the message through the internet; and

receiving from the agent through the internet, the name of the sender, the name and internet address of the server and the identity and internet address of the agent.

101. In a method as set forth in claim 99, the steps at the server of:

transmitting to an agent for the recipient through the internet the identity of the sender and the identity and internet address of the server at the same time that the server transports to the agent the message through the internet;

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receiving from the agent through the internet the name of the sender, the name and internet address of the server and the identity and internet address of the agent; and

receiving from the agent through the internet the digital fingerprint of the attachment at the same time that the server receives the digital fingerprint of the message through the internet.

102. In a method as set forth in claim 100, the steps at the server of:

storing at the server the digital fingerprint of the message, the name of the sender, the identity and internet address of the server and the identity and internet address of the agent, and

transmitting to the sender for storage by the sender the digital fingerprint of the message, the name of the sender, the identity and internet address of the server and the identity and internet address of the agent.

103. In a method as set forth in claim 101, the steps of:

storing at the server a digital fingerprint of the message, the name of the sender, the identity and internet address of the server and the identity and internet address of the agent,

transmitting at the server to the sender for storage by the sender a digital fingerprint of the message, the name of the sender, the identity and internet address of the server and the identity and internet address of the agent,

storing at the server a digital fingerprint of the attachment, and

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transmitting at the server through the internet to the sender, for storage by the sender, the digital fingerprint of the attachment, as received by the server from the agent, at the same time that the server transmits to the sender through the internet the digital fingerprint of the message and the identity of the sender and the identity and e-mail address of the server and the identity and internet address of the agent.

104. In a method as set forth in claim 102, the step of:

sending at the server to the sender through the internet the message received by the server from the sender with an appendage of the digital fingerprint of the message for storage by the sender.

105. In a method as set forth in claim 103, the step of:

sending at the server to the sender through the internet the message received by the server from the sender with an appendage of the digital fingerprint of the message for storage by the sender.

106. In a method of transmitting a message through the internet from a sender to an agent for the recipient through a server displaced from the agent, the steps at the server of:

receiving the message at the server from the sender,

generating a hash constituting a synopsis of the message of the message in encoded form,

encrypting the hash with a particular encryption code to generate a digital fingerprint of the

message,

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transmitting the message and the identity of the sender and the identity and internet address of the server through the internet from the server to the agent,

310 824 9696;

receiving at the server through the internet any transmission through the internet from the agent concerning the message from the sender, and

determining the transmission received by the server from the agent, or from the lack of any reception by the server through the internet from the mail transport authority, the delivery status of the transmission by the server to the agent and the delivery status of any delivery of the message by the agent to the recipient.

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107. In a method as set forth in claim 106, the steps at the server of:

periodically examining the delivery status of the message transmitted to the agent and the delivery status of any delivery of the message by the agent to the recipient, and

transmitting the message and the digital fingerprint of the message and the identity of the sender and the identity and internet address of the server through the internet to the sender with an indication of the celivery of the message to the agent when the server determines from the periodic examination that the message has been delivered to the said transport agent.

108. A method of transmitting a message through the internet from a sender to an agent for a recipient through a server displaced from the agent, including the steps at the server of: receiving the message at the server,

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providing a digital fingerprint of the message,

transmitting through the internet to an agent of the recipient the message and the identity of the sender and the identity and the internet address of the server,

receiving the identity and internet address of the agent and the identity of the sender and the identity and internet address of the server, and

providing to the sender the information received by the server from the agent and the digital fingerprint of the message.

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109. A method as set forth in claim 108, including the steps at the server of:

providing to the sender the message at the same time as the provision of the digital fingerprint of the message to the sender, and

retaining the information provided to the sender but discarding the message provided to the sender.

110. A method as set forth in claim 108, including the steps at the server of:

providing an indication of the date and time of the reception of the identity and internet address of the agent and the identity of the sender and the identity and the internet address of the server from the agent, and

providing to the sender the indication of the date and time of the reception of the digital fingerprint from the agent.

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111. A method as set forth in claim 108, including the steps at the server of:

receiving from the sender a copy of the message provided by the server and a copy of the digital fingerprint of the message and the identity and internet address of the agent and the identity of the sender and the identity and internet address of the server, and

comparing the digital fingerprint of the message and the identity and internet address of the agent and the identity of the sender and the identity and internet address of the server, all as received from the sender, and the identity and internet address of the agent and the identity of the sender and the identity and internet address of the recipient, all as provided by the server, and the digital fingerprint of the message at the server, and

authenticating the message received from the sender on the basis of the comparison provided at the server.

112. A method as set forth in claim 108, including the steps at the server of:

forming at the server the digital fingerprint of the message by providing a hash of the message and then

encrypting the hash of the message.

113. A method as set forth in claim 108, including the steps at the server of: providing a digital fingerprint of an attachment to the message,

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transmitting to the agent the attachment at the same time as the transmittal of the message, and

transmitting to the sender the digital fingerprint of the attachment at the same time as the transmission of the digital fingerprint of the message.

114. A method as set forth in claim 112, including the steps at the server of:

providing an indication of the date and time of the reception of the message from the agent,

and

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providing to the sender the indication of the date and time of providing to the server the digital fingerprint of the message from the agent at the time of providing to the sender the digital fingerprint of the message,

providing to the sender the message at the same time as the provision of the digital fingerprint of the message to the sender, and

retaining the information provided to the sender but discarding the message provided to the sender.

providing a digital fingerprint of an attachment to the message,

transmitting to the agent the attachment at the same time as the transmittal of the message, transmitting to the sender the digital fingerprint of the attachment at the same time as the transmission of the digital fingerprint of the message,

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receiving from the sender a copy of the message provided to the sender and a copy of the digital fingerprint of the message and the identity and internet address of the agent and the identity of the sender and the identity and internet address of the server.

comparing the digital fingerprint of the message and the identity and internet address of the agent and the identity of the sender and the identity and internet address of the server, all as received from the sender, and the digital fingerprint of the message and the identity and internet address of the agent and the identity of the sender and the identity and internet address of the recipient, all as provided by the server, and

movided by the server, a

authenticating the message received from the sender on the basis of the comparison provided by the server.

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115. In a method of transmitting a message through the internet from a sender to an agent for a recipient through a server displaced from the recipient, the steps at the server of:

providing at the server a digital fingerprint of the message,

storing at the server the digital fingerprint of the message, and

transmitting to the sender the message and the digital fingerprint of the message for storage by the sender.

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116. In a method as set forth in claim 115, the step at the server of:

discarding the message after the transmission of the message and the digital fingerprint of the message to the sender

117. In a method as set forth in claim 116 the steps at the server of:

receiving from the sender copies of the message and the digital fingerprint of the message, comparing the digital fingerprint of the message from the sender and the stored digital fingerprint of the message, and

authenticating the message on the basis of the results of the comparison.

118. In a method as set forth in claim 115,

providing at the server, at the same time as the provision of the digital fingerprint of the message at the server, the identity of the sender and the identity and internet address of the server and the address and internet address of the mail transport agency, all as received by the server from the agent,

storing at the server the information received by the server from the agent, and transmitting to the sender the identity of the sender, the identity and internet address of the server and the identity and internet address of the agent, all as received by the server from the agent, at the same time as the transmission of the message and the digital fingerprint of the message to the

sender.

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119. In a method as set forth in claim 115, the steps at the server of:

storing at the server the digital fingerprint of the attachment of the message, and

transmitting to the sender, at the same time as the transmission of the message and the digital
fingerprint of the message, the attachment and the digital fingerprint of the attachment as received
by the server.

120. In a method as set forth in claim 119, the steps at the server of:

receiving from the sender copies of the message and the attachment and the digital fingerprints of the message and the attachment, and

respectively comparing the digital fingerprints of the message and the attachment and the stored digital fingerprints of the message and the attachment to authenticate the message and the attachment on the basis of this comparison.

121. In a method as set forth in claim 119, the steps at the server of

storing at the server, at the same time as the provision of the digital fingerprints of the message and the attachment at the server, the identity of the sender and the identity and internet address of the server and the address and internet address of the agent, all as received by the server from the agent,

transmitting to the sender the identity of the sender, the identity and internet address of the server, the identity of the sender, and the identity and internet address of the agent, all as received 204242.2

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by the server from the agent, at the same time as the transmission of the message and the attachment and the digital fingerprint of the message and the attachment to the sender.

122. A method of transmitting a message through the internet from a sender to an agent for a recipient through a server displaced from the agent, including the steps of

providing the message from the sender at the server,

providing at the server a digital fingerprint of the message and the identity of the sender and the identity and internet address of the server,

transmitting to the agent the message and the identity of the sender and the identity and the internet address of the server,

providing at the agent an indication of the status of the reception at the agent of the transmittal from the server to the agent of the message and the identity of the sender and the identity and interest address of the server, and

transmitting to the server from the agent the identity and internet address of the agent and the status of the reception at the agent of the message and the identity of the sender and the identity and internet address of the server.

123. A method as set forth in claim 122, including the steps of:
providing at the server a digital fingerprint of an attachment to the message.

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transmitting the attachment to the agent at the same time as the transmittal of the message to the agent,

providing at the agent the status of the reception of the attachment at the same time as the provision at the agent of the status of the reception of the message, and

transmitting to the server from the agent the status of the reception of the attachment at the same time as the ransmittal to the server from the agent of the status of the reception of the message.

124. A method as set forth in claim 122 wherein

the digital fingerprint of the message includes a digital digest of the message and an encryption of the digital digest.

125. A method as set forth in claim 122 wherein

the agent includes in the transmission to the server the date and time of the transmission by the agent to the server.

126. A method as set forth in claim 122 wherein

the server transmits to the sender the message and the digital fingerprint of the message and the identity of the sender and the identity and internet address of the server and the identity and internet address of the agent and the status at the agent of the reception at the agent of the message.

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127. A method as set forth in claim 122 wherein

the delivery status of the message at the agent includes at least one of the following: (a)

DELIVERED, (b) RELAYED, (c) DELIVERED-AND-WAITING FOR DELIVERY STATUS

NOTIFICATION (DSN), (d) DELIVERED-TO-MAILBOX, and (e) FAILED, UNDELIVERABLE.

128. A method as set forth in claim 122 wherein

the digital fingerprint of the message includes a digital digest of the message and an encryption of the digital digest,

the agent includes the date and time of the transmission by the agent to the server, and the server transmits to the sender the message and the digital fingerprint of the message and the identity of the sender and the identity and internet address of the server and the identity and internet address of the agent and the status at the agent of the reception at the agent of the message and the digital fingerprint of the message,

the delivery status of the message at the agent includes at least one of the following: (a) DELIVERED, (b) RELAYED, (c) DELIVERED-AND-WAITING FOR DELIVERY STATUS NOTIFICATION (DSN), (d) DELIVERED-TO-MAILBOX, and (e) FAILED, UNDELIVERABLE.

129. A method as set forth in claim 128, including the steps of: providing at the server a digital fingerprint of an attachment to the message,

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transmitting the attachment to the message to the agent at the same time as the transmittal of the message to the agent,

providing at the agent the status of the reception of the attachment at the same time as the provision at the agent of the status of the reception of the message, and

transmitting to the server from the agent the status of the reception of the attachment at the same time as the transmittal to the server from the agent of the status of the reception of the message.

130. A method of transmitting a message through the internet from a sender to an agent for a recipient through a server displaced from the agent, including the steps at the server of:

providing at the server a digital fingerprint of the message and the identity of the sender and the identity and internet address of the server.

transmitting to the agent the message and the identity of the sender and the identity and internet address of the server,

receiving from the agent the identity of the sender and the identity and internet address of the server and the identity and internet address of the agent and an indication of the status of the reception of the message at the agent, and

transmitting to the sender the message and the information received by the server from the agent relating to the message.

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131. A method as set forth in claim 130, including the steps at the server of:

providing at the server a digital fingerprint of an attachment to the message,

transmitting to the agent the attachment at the same time that the message is transported to

the agent,

receiving from the agent the status of the reception at the agent of the attachment at the same time that the server receives from the agent the status of the reception at the agent of the message,

and

transmitting to the sender the attachment and the information received by the server from the agent relating to the attachment at the same time that the server transmits to the sender the message and the information received by the server from the agent relating to the message.

132. A method as set forth in claim 130 wherein

the delivery status of the message at the agent includes at least one of the following: (a) DELIVERED, (b) RELAYED, (c) DELIVERED-AND-WAITING FOR DELIVERY STATUS NOTIFICATION (DSN), (d) DELIVERED-TO-MAILBOX, and (e) FAILED, UNDELIVERABLE.

133. A method as set forth in claim 130 wherein

the server ecceives from the agent the date and time of the transmission by the agent to the server of the status of the reception of the message at the agent and wherein

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the server transmits to the sender the date and time of the transmission by the agent of the status of the reception by the agent of the message at the same time that the server transmits to the sender the status of the reception by the agent of the message.

134. A method as set forth in claim 133 wherein

the server also transmits to the sender the date and time of the transmission to the sender of the status of the reception by the agent of the message.

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135. A method as set forth in claim 134 wherein

136. A method as set forth in claim 134 wherein

the server does not store the message after it transmits the message to the sender.

the server transmits to the sender the identity of the sender and the identity and internet address of the server at the same time that it transmits the message and the digital fingerprint of the message to the sender and wherein

the server stores the identity of the sender and the identity and the internet address of the server and the digital fingerprint of the message and wherein

the server compares the stored identity of the sender and the identity and the internet address of the server, all as stored by the server, and the identity of the sender and the identity and the

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internet address of the server, all as received by the sender, to authenticate the message transmitted from the server to the sender.

137. A method as set forth in claim 134 wherein

the server transmits to the sender the identity and internet address of the agent and the status of the reception of the message, all as received by the server from the agent, and the digital fingerprint of the message and wherein

the server stores the identity and internet address of the agent and the status of the reception of the message received by the agent, all as received by the server from the agent and the digital fingerprint of the message, and wherein

the server compares the stored identity and internet address of the agent and the status of the reception of the message and the digital fingerprint of the message with the identity and internet address of the agent and the status of the reception of the message and the digital fingerprint of the message all as received by the sender from the server, to authenticate the message transmitted from the server to the sender.

138. A method as set forth in claim 136 wherein

the server does not store the message after it transmits the message to the sender and wherein

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the server transmits to the sender the identity and internet address of the agent and the status of the reception of the message received by the agent, all as received by the server from the agent, and the digital fingerprint of the message, and wherein

the server stores the identity and internet address of the agent and the status of the reception of the message and the digital fingerprint of the message received by the agent, all as received by the server from the agent, and the digital fingerprint of the message and wherein

the server compares the stored identity and internet address of the agent and the status of the reception of the message and the digital fingerprint of the message with the identity and internet address of the agent and the status of the reception of the message and the digital fingerprint of the message, all as received by the sender from the server, to authenticate the message transmitted from the sender to the server.

139. A method of authenticating a message transmitted through the internet from a sender to a recipient through a server displaced from the recipient, including the steps at the server of:

transmitting to the sender the message and a digital fingerprint of the message, and a status of the reception of the message by an agent for the recipient,

storing the digital fingerprint of the message at the server and the status of the reception of the message by the agent,

receiving from the sender the digital fingerprint of the message and the status of the reception of the message by the agent, and

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comparing the stored digital fingerprint of the message and the digital fingerprint of the message as received by the server from the sender to authenticate the message transmitted from the server to the sender.

140. A method as set forth in claim 139 wherein

the server stores the information transmitted by the server relating to the status of the reception of the message and the digital fingerprint of the message but does not store the message and wherein

the server compares the information stored by the server, and the information provided by the sender, relating to the status of the reception by the agent of the message, and the digital fingerprint of the message, to authenticate the message transmitted by the server to the sender.

#### 141. A method as set forth in claim 139 wherein

the server transmits to the sender the identity of the sender and the identity and internet address of the server, all as transmitted by the agent to the server and wherein

the server stores the identity of the sender and the identity and internet address of the server, all as transmitted by the agent to the server and wherein

the server compares the information stored by the server, and the information provided by the sender, relating to the identity of the sender and the identity and information address of the server to authenticate the message transmitted by the server to the sender.

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142. A method of authenticating a message transmitted through the internet from a sender to an agent for a recipient through a server displaced from the agent, including the steps of:

transmitting to the sender the message and a digital fingerprint of the message and a status of a reception by an agent for the recipient of the message,

storing the digital fingerprint of the message at the server, and

comparing the stored digital fingerprint of the message and the digital fingerprint of the message transmitted to the sender to authenticate the message transmitted from the server to the sender.

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143. The method as set forth in claim 142 wherein

the server does not store the message after it transmits the message to the sender.

144. A method as set forth in claim 142 wherein

the server transmits to the sender the identity of the sender and the identity and internet address of the server at the same time that it transmits the message and the digital fingerprint of the message to the sender and wherein

the server stores the identity of the sender and the identity and the internet address of the server at the same time that it transmits the message and the digital fingerprint of the message to the sender and wherein

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the server receives from the sender the identity of the sender and the identity and internet address of the server and wherein

the server compares the identity of the sender and the identity and the internet address of the server, all as received by the server from the sender, with the stored identity of the sender and the stored internet address of the server to authenticate the message transmitted from the server to the sender.

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145. A method of transmitting a message through the internet from a sender to an agent for a recipient through a server displaced from the agent, including the steps at the server of, receiving the message from the sender,

transmitting to the agent the message and a fictitious return address identifying the message, the sender and the recipient,

receiving from the agent the fictitious return address identifying the message, the sender and the recipient, and

identifying the message transmitted from the server to the agent and received by the server from the agent and identifying the message, the sender and the recipient.

146. A method as set forth in claim 145 wherein

the server transmits to the sender the fictitious return address received by the server from the agent and identifying the message, the sender and the recipient for return by the sender and wherein 204242.2

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the server stores the fictitious return address received by the server from the agent and identifying the message, the sender and the recipient.

#### 147. A method as set forth in claim 146 wherein

the server transmits the message to the sender at the time that it transmits to the sender the fictitious return address received by the server from the agent and identifying the message, the sender and the recipient and wherein

the server does not retain the message after it transmits the message to the sender.

148. A method as set forth in claim 145 wherein

the recipient is one of a plurality of recipients receiving the message from the server and wherein

the fictitious return address identifies the recipient from among the recipients in the group.

149. A method as set forth in claim 145 wherein

the message has an attachment and wherein

the fictitiqus return address also identifies the attachment to the message.

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150. A method as set forth in claim 146 wherein

the server transmits the message to the sender at the time that it transmits to the sender the fictitious return address received by the server from the agent and identifying the message, the sender and the recipient and wherein

the server does not retain the message after it transmits the message to the sender and wherein
the recipient is one of a plurality of recipients receiving the message from the server and
wherein

the fictitious return address identifies the recipient from among the recipients in the group and wherein

the message has an attachment and wherein

the fictitious return address also identifies the attachment to the message.

151. In a method of identifying a sender's message transmitted from a server to an agent for a recipient, the steps at the server of:

transmitting to the sender a fictitious return address received by the server from the agent and identifying the message, the sender and the receiver,

storing in the server the fictitious return address transmitted by the server to the sender, and receiving from the sender the fictitious return address transmitted by the server to the sender,

and

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comparing the fictitious return address provided by the sender and the fictitious return address stored in the server to authenticate the message provided by the sender.

152. In a method as set forth in claim 151 wherein,

the server transmits to the sender the message at the same time that it transmits the fictitious return address to the sender and wherein

the server does not retain the message after it transmits the message to the sender.

153. In a method as set forth in claim 151 wherein

the recipient is an individual one of a plurality of recipients receiving the message from the server and wherein

the fictitious return address identifies the individual one of the recipients in the group receiving the message.

154. In a method as set forth in claim 151 wherein

the message has an attachment and wherein

the fictitious return address identifies the attachment to the message.

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155. In a method as set forth in claim 152 wherein

the recipient is an individual one of a plurality of recipients receiving the message from the server and wherein

the fictitious return address identifies the individual one of the recipients in the group receiving the message and wherein

the message has an attachment and wherein

the fictitious refurn address identifies the attachment to the message.

156. A method of transmitting a message through the internet from a sender to an agent for a recipient through a server displaced from the recipient, including the steps at the agent of:

receiving from the server though the internet the message and a digital signature, of the message and the identity of the sender and the name and internet address of the server, and

providing for a transmittal to the server through the internet the digital signature of the message and the identity of the sender and the name and internet address of the internet and the name and internet address of the agent.

157. A method as set forth in claim 156, including the step at the agent of:

indicating in the transmittal from the agent to the internet whether or not the message has been delivered by the agent to the recipient.

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158. A method as set forth in claim 156, including the step at the agent of:

indicating in the transmittal from the agent to the internet that the message and the digital signature, of the message and the identity of the sender and the name and internet address of the server have been sent by the agent to another agent for delivery to the recipient.

159. A method of providing a delivery at a first server of an electronic message from the first server to a destination address, including the steps of:

receiving at the first server an electronic message from a message sender for routing to the destination address,

transmitting the electronic message to a destination server for the destination address and transactions between the first server and the destination server receiving the message via a protocol selected from a group consisting of an SMTP and an ESMTP protocol,

recording at the first server the transactions between the first server and the destination server in the selected one of the protocols.

160. A method as set forth in claim 159, including the steps of:

including in the transaction between the first server and the destination server the identity of the sender, the identity and internet address of the first server and the identity and internet address of the destination server.

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161. A method as set forth in claim 159, including the steps of:

providing transactions between the first server and the sender,

including, in the transactions between the first server and the sender, a digital fingerprint of the electronic message from the message sender.

162. A method as set forth in claim 159, including the step of:

recording, in the transactions between the first server and the destination server, the time for the sending of the message from the first server to the destination server and the time for the receipt of the message by the destination server.

163. A method as set forth in claim 160, including the steps of:

providing transactions between the first server and the sender, and

including, in the transactions between the first server and the sender, a digital fingerprint of the electronic message from the sender, and

recording, in the transactions between the first server and the destination server, the time for the sending of the message from the first server to the destination server and the time for the receipt of the message by the destination server.

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164. A method as set forth in claim 159, including the step of:

including in the transaction between the first server and the destination server the status of the delivery of the message from the destination server to the recipient.

165. A method as set forth in claim 159, including the step of:

receiving at the first server a delivery status notification relating to the status of the delivery of the message to the destination server and the delivery of the message from the destination server to the recipient.

166. In a method of verifying at a first server a delivery of an electronic message to a destination server for a recipient, the steps of:

transmitting the electronic message from the first server to the destination server through a transaction between the first server and the destination server via a protocol selected from the group consisting of an SMTP protocol and an ESMTP protocol,

recording at the first server the transactions between the first server and the destination server in the selected one of the protocols, and

transmitting to the sender the transactions between the first server and the destination server in the selected one of the protocols.

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167. In a method as set forth in claim 166, the step of:

transmitting from the first server to the sender a copy of the message at the time of the transaction of the first server and the destination server in the selected one of the protocols.

168. In a method as set forth in claim 166, the step of:

destroying the message at the first server after the transmission of the copy of the message in the selected one of the protocols by the first server to the destination server.

169. In a method as set forth in claim 166, the steps of:

recording at the first server a digital fingerprint of the message, and

transmitting the digital fingerprint of the message from the first server to the sender at the time of the transmission of the selected one of the protocols from the first server to the sender.

170. In a method as set forth in claim 169, the steps of:

transmitting from the first server to the sender a copy of the message at the time of the transaction of the first server and the destination server in the selected one of the protocols, and destroying the message at the first server after the transmission of the copy of the message in the selected one of the protocols by the first server to the destination server.

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171. In a method as set forth in claim 170, the step of:

transmitting between the first server and the destination server the name of the sender, the name and address of the first server and the name and address of the destination server and the time of the receipt of the message by the first server.

172. In a method as set forth in claim 166, the step of:

of the message from the first server to the destination server and the time of the transmission of the delivery status notification by the destination server to the first server.

173. In a method of verifying at a first server a message received by the first server from a sender and transmitted by the first server to a destination server for a recipient, the steps of:

recording at the first server transactions between the first server and the destination server relating to the message from the sender, the transactions between the first server and the destination server being provided via a protocol selected from the group consisting of a SMTP protocol and an ESMTP protocol,

transmitting from the first server to the sender the message and the transactions between the first server and the destination server via the selected one of the SMTP protocol and the ESMTP protocol, and

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comparing at the first server the recorded transactions and the transactions previously transmitted from the first server to the sender and subsequently provided by the sender to the first server, thereby to authenticate the message transmitted by the first server to the sender when there is a correspondence in the comparison.

In almethod as set forth in claim 173, the step of: 174.

transmitting with the message from the first server to the sender a digital fingerprint of the message at the same time that the first server transmits to the sender the transactions between the first server and the destination server via the selected one of the SMTP protocol and the ESMTP protocol.

175. In a method as set forth in claim 170, the step of:

removing the message from the first server when the first server transmits to the sender the message and the transaction between the first server and the destination server via the selected one of the SMTP protocol and the ESMTP protocol.

176. In a method as set forth in claim 173, the steps of:

recording at the first server the indication of the name of the sender, the name and address of the first server and the name and address of the destination server at the time of the recording at

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the first server of the transactions between the first server and the destination server via the protocol selected from the group consisting of the SMTP protocol and the ESMTP protocol, and

transmitting from the first server to the sender the name of the sender, the name and address of the first server and the name and address of the destination server at the time of the transmission from the first server to the destination server of the transaction between the first server and the destination server via the protocol selected from the group consisting of the SMTP protocol and the ESMTP protocol.

the comparison at the first server including a comparison of the name of the sender, the name and address of the first server and the name and address of the destination server as received by the first server from the sender and as recorded by the first server.

177. In a method as set forth in claim 175, the steps of

recording at the first server the digital fingerprint of the message and transactions between the first server and the destination server relating to the message from the sender, the transactions between the first server and the destination server being provided via a protocol selected from the group consisting of an SMTP protocol and an ESMTP protocol.

transmitting from the first server to the sender the message and the digital fingerprint of the message and the transactions between the first server and the destination server via the selected one of the SMTP protocol and the ESMTP protocol,

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transmitting the message from the first server to the sender and a digital fingerprint of the message at the same/time that the first server transmits to the sender the transactions between the first server and the destination server via the selected one of the SMTP protocol and the ESMTP protocol, and

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comparing at the first server the recorded digital fingerprints and recorded transactions with the digital fingerprint and the transactions previously transmitted from the first server to the sender and subsequently provided by the sender to the first server, thereby to authenticate the message transmitted by the first server to the sender when there is an correspondence in the comparison.

178. In a method as set forth in claim 173, the step of:

recording at the first server an indication of the identity of the sender, the identity and the address of the first server and the identity and address of the destination server at the same time that the transactions between the first server and the destination address are recorded at the first server.

transmitting from the first server to the sender the identity of the sender, the identity and address of the first server and the identity and address of the destination server at the time that the message and the transactions between the first server and the destination server are transmitted from the first server to the sender, and

comparing at the first server the identity of the sender, the identity and address of the first server and the identify and address of the destination server, all as transmitted to the sender and as recorded in the first server, at the same time that the other comparisons are made, thereby to 204242.2

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authenticate the message transmitted by the first server to the sender when there is a correspondence in the comparison.

179. A method of verifying delivery at a first server of an electronic message to a destination server for a recipient, including the steps of:

receiving at the first server an electronic message from a message sender for routing to the destination server,

establishing at the first server a communication with the destination server,

transmitting from the first server the electronic message to the destination server with a protocol transaction via a protocol selected from a group consisting of an SMTP protocol and an ESMTP protocol,

recording at the first server the protocol transactions between the first server and the destination server relating to the message,

transmitting from the first server to the sender the message and the protocol transactions between the first server and the destination server,

providing at the first server a comparison of at least a particular portion of the transactions in the selected one of the protocols as proof of delivery of the message by the first server to the destination server, the comparison being provided between the transaction protocol recorded at the first server and the transaction protocol received by the sender from the server.

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180. A method as set forth in claim 178 wherein

the at least particular portion of the transactions provided in the selected protocol to the sender is thereafter provided by the sender to the first server, and

the at least particular portion provided in the selected protocol by the sender to the first server is compared in the first server with the at least particular portion recorded in the selected protocol at the first server to determine whether the message received by the sender is authentic.

181. A method as set forth in claim 178 wherein

a digital fingerprint is made of the message at the first server and wherein

the digital fingerprint is recorded at the first server with the protocol transactions and wherein the digital fingerprint is transmitted from the first server to the sender with the message and the protocol transactions between the first server and the destination server and wherein

the digital fingerprint is provided by the sender to the first server with the at least particular portion of the transactions in the selected protocol.

182. A method as set forth in claim 180 wherein

the digital fingerprint and the at least particular portion of the transactions provided in the selected protocol to the sender are thereafter provided by the sender to the first server and wherein the digital fingerprint and the at least particular portion provided in the selected protocol by the sender to the first server are compared in the first server with the digital fingerprint and the at 204242.2

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least particular portion recorded in the selected protocol at the first server to determine whether the message received by the sender is authentic.

183. A method of verifying at a first server the delivery of an electronic message from the first server to a destination server for a destination address including the steps of:

receiving at the first server an electronic message from a message sender for routing to the destination server.

transmitting to the destination server for the destination address the electronic message and transactions between the first server and the destination server relating to the electronic message via a protocol selected from the group consisting of an SMTP protocol and an ESMTP protocol,

recording at the first server the transactions between the first server and the destination server via the protocol selected from the group consisting of the SMTP protocol and the ESMTP protocol,

in the selected one of the protocols, and

comparing at the first server the recorded transactions and the transactions previously transmitted from the first server to the sender and subsequently provided by the sender to the first server, thereby to authenticate the message transmitted by the first server to the sender when there is an identity in the comparison.

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